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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Yoshinori Takasaki

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HARRITY SNYDER, LLP  
11350 Random Hills Road  
SUITE 600  
FAIRFAX, VA 22030

EXAMINER

GREY, CHRISTOPHER P

ART UNIT

PAPER NUMBER

2616

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/931,922

Applicant(s)

TAKASAKI, YOSHINORI

Examiner

Christopher P. Grey

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 20 August 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

1. Claim 1 recites the limitation "said specific OAM cell handler" in line 9. There is insufficient antecedent basis for this limitation in the claim, as the claim initially references a first OAM cell handler, and now recites a specific OAM cell handler.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1, 3-7, 9-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagata et al. (US 6269083), hereinafter referred to as Nagata.

**Claim 1, 7, 12, 13** Nagata discloses a plurality of OAM cell handlers (OAM cell controller, see fig 5, 37)

Nagata discloses a plurality of virtual path handlers (fig 2, 12 and Col 8 lines 1-17, plurality of paths).

Nagata discloses a plurality of virtual channel handlers (fig 2, 13 and Col 8 lines 1-17, plurality of paths).

Nagata discloses trunks (Col 6 lines 36-46)

Nagata discloses a control unit (fig 5, 36, controller) configured to:

Issue an OAM cell send instruction to a first one of the plurality of OAM cell handlers to carry out a loopback control test (Col 12 lines 35-52) to at least one of the virtual path handlers (fig 2, SN=0), at least one of said virtual channel handlers (fig 2, SN=1), and at least one of said trunks (fig 2, SN=2), which are associated with said first OAM cell handler, in response to the OAM cell send instruction, and

When said first OAM cell handler send out an OAM cell in response to said OAM cell send instruction, determine a fault position based on returning or non-returning (Col 13 lines 46-65) of the OAM cell to said first OAM cell handler (Col 16 line 55-Col 17 line 4).

**Claim 3, 9, 10** Nagata discloses said OAM handlers, said plurality of virtual path handlers, said plurality of virtual channel handlers, said trunks, and said control unit being contained in an ATM switching apparatus (see fig 5, 31 and 34, exchange block is connected to switch, where switch is dedicated for routing based on routing information,

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and routing information comes from ATM exchange block, where exchange block would be considered a form of switching apparatus).

**Claim 4, 11, 14** Nagata discloses periodically issuing the OAM cell send instruction to the first OAM cell handler (Col 14 lines 3-24).

**Claim 5** Nagata discloses determine a fault position based on returning or non-returning (Col 13 lines 46-65) of each OAM cell to said first OAM cell handler (Col 16 line 55-Col 17 line 4).

**Claim 6** Nagata discloses an OAM cell transmission control unit that transmits (issues) an OAM cell transmission request (OAM send cell instruction) as disclosed in Col 12 lines 35-52.

Nagata also discloses an OAM cell transmission control unit that controls the OAM cell transmitter to transmit the OAM loopback cell to the path route (Col 6 lines 39-46).

Nagata discloses a controller coupled to the control unit for determining a fault based on the returning of the OAM cell (Col 16 line 62- Col 17 line 20).

Nagata discloses a second OAM loopback cell delivering means (OAM cell handler) being enabled (changed) to deliver a second OAM loopback cell (Col 5 lines 44-50), where transmission of a second cell may be broadly interpreted as a change for the control unit, as opposed to sending a first OAM cell.

**Claim 15** Nagata discloses forwarding information to the control unit based on return of the test data to the first testing device (fig 6, 37 and 37b).

**Claim 16** Nagata discloses a controller coupled to the control unit for determining a fault based on the returning of the OAM cell (Col 16 line 62- Col 17 line 20).

**Claim 17** Nagata discloses performing a fault avoidance operation based on the identified fault (Col 25 lines 9-19, maintenance action).

**Claim 18** Nagata discloses the control unit being configured to forward loopback control test initiation instructions to the plurality of the testing devices (Col 12 lines 35-52).

**Claim 19** Nagata discloses the plurality of testing devices may be included in the plurality of path handlers, the plurality of channel handlers or the plurality of trunks (see fig 2, exchanges B-D).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 2, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagata et al. (US 6269083), hereinafter referred to as Nagata.

**Claim 2, 8** Nagata discloses a switching apparatus connected to an ATM exchange dedicated to route/switch data based on routing information (see fig 5 and relevant description).

Nagata also discloses detecting the position of a fault (Col 16 line 55-Col 17 line 4).

Nagata does not specifically disclose carrying out a switching operation of a route from at least one of said virtual path handlers to at least one of said trunks for fault avoidance based on the determined fault position.

It would have been obvious to one of the ordinary skill in the art at the time of the invention that as a result of the determination that a fault has occurred and the position of the fault, that a switching operation take place in order to switch from the determined fault position, as is well known and applicable within the art. Furthermore, Nagata discloses recognizing a fault and a making a maintenance action with ease, where a maintenance action may simply involve switching a route.

### ***Response to Arguments***

4. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Grey whose telephone number is (571)272-3160. The examiner can normally be reached on 7:30-5:00.

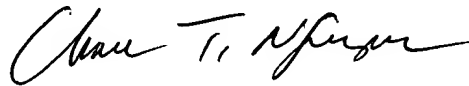
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571)272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher Grey  
Examiner  
Art Unit 2616

*C. Grey*  
Sept 20, 2006



CHAU NGUYEN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600